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on October 21, 1998.

EP 1646  
PATENT

Atty. Docket No. DX058271



Lois E. Miller  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Wei Wang, et al.

Serial No.: 08/887,977

Filed: July 3, 1997

For: MAMMALIAN CHEMOKINES  
REAGENTS

Examiner: G. Draper

Art Unit: 1646

SUPPLEMENTARY INFORMATION  
DISCLOSURE STATEMENT

Palo Alto, California 94304

October 20, 1998

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The materials as listed in the attached modified PTO 1449 form are brought to the Examiner's attention pursuant to the duty of disclosure under 37 C.F.R. § 1.56, § 1.97, and § 1.98.

Citation of these documents should not be construed as a representation that the documents are in fact material or are in fact prior art with respect to the instant invention. The Examiner should not make any inference relating to the relative pertinence of cited references based upon the order in which the art is presented. Citation of these documents should not be construed as a representation that a search has been made or that more pertinent art may not be in existence.

Please note that reference designations BI to BS have previously been used. Please be careful to avoid confusion of different references with the same designation. Applicants apologize in advance for any inconvenience this may cause.

Enclosed for the Examiner's review are copies of the results of the highest matching sequences found published in the Derwent Geneseq patent sequence database in connection with the relevant sequences. Attached the Examiner will find a document which describes how the search was performed and what each record contains. If there are questions regarding these searches, Applicants would welcome the Examiner to contact the undersigned at (650)496-1204

Applicants request that the Examiner fully consider the art cited in the attached modified PTO 1449 form. Applicants further request that the Patent and Trademark Office list all such art on the front of any patent issuing from this application.

Since this Information Disclosure Statement is being filed before receiving the first Office action on the merits, applicants believe no fee is required for filing this document; however, if such a fee is required the Commissioner is hereby authorized to charge DNAX Research Institute's Deposit Account No. 04-1239.

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Respectfully submitted,

GROUP 1800

October 20, 1998

By:

Edwin P. Ching

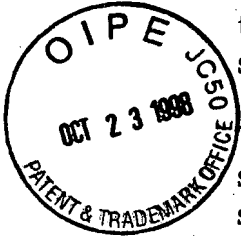
Edwin P. Ching  
Attorney for Applicants  
Reg. No. 34,090

Enclosures:

1. Search description document (1 page);
2. Modified PTO 1449 form (7 pages);
3. References BI-EA; and,
4. Return Postcard.

## How the Search was Performed:

08/ 887,977



A homology search was performed for each DNAX chemokine sequence against Derwent's DGene database. Each record judged to be a homology for a DNAX sequence is assigned a Smith-Waterman similarity score to that DNAX sequence. Each set of homologous records is sorted by this score, and the first five to ten records are printed.

The online search system has a limit of around 200 characters per line. For sequences that are longer than this, I divided up the sequence into three segments. I first divided the sequence in half and searched each segment (called segments 1 and 2). For segment 3, I took a quarter of the sequence on either side of the full sequence's midpoint, e.g. the sequence's middle half.

## What Each Record Contains:

Each record contains patent information and the sequence.

Similarity information is found at the end of each record. The Smith-Waterman score is shown along with the number of amino acids found to overlap with the DNAX sequence.

A display comparing the DNAX sequence to the retrieved sequence is also given. The DNAX sequence is displayed on top of the retrieved sequence. The display also shows a line between the two sequences that gives the information about the degree of similarity:

- 2 dots represent identical amino acids
- 1 dot indicates amino acids of the same family
- A blank occurs if there is no match
- Gaps in the sequence are shown with an underscore